12:

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Wright, Jim A. Young, Aiping H.
 - (ii) TITLE OF INVENTION: INHIBITING NEOPLASTIC CELLS UNTILIZING THE RIBONUCLEOTIDE REDUCTASE UTR
 - (iii) NUMBER OF SEQUENCES: 50
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Kohn & Associates
 - (B) STREET: 30500 Northwestern Hwy.
 - (C) CITY: Farmington Hills
 - (D) STATE: Michigan
 - (E) COUNTRY: US
 - (F) ZIP: 48334
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible

 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kohn, Kenneth I.
 - (B) REGISTRATION NUMBER: 30,955
 - (C) REFERENCE/DOCKET NUMBER: 0227.00003
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (248) 539-5050
 - (B) TELEFAX: (248) 539-5055
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 523 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (iii) HYPOTHETICAL: NO
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (ix) FEATURE:
 - (A) NAME/KEY: 3'UTR
 - (B) LOCATION: 1..523
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AGGTATAGTG	GGTTTGCTTG	AGGTGGTAAG	GCTTTGCTGG	ACCCTGTTGC	AGGCAAAAGG	120
AGTAATTGAT	TTAAAGTACT	GTTAATGATG	TTAATGATTT	TTTTTTAAAC	TCATATATTG	180
GGATTTTCAC	CAAAATAATG	CTTTTGAAAA	AAAGAAAAA	AAAACGGATA	TATTGAGAAT	240
CAAAGTAGAA	GTTTTAGGAA	TGCAAAATAA	GTCATCTTGC	ATACAGGGAG	TGGTTAAGTA	300
AGGTTTCATC	ACCCATTTAG	CATGCTTTTC	TGAAGACTTC	AGTTTTGTTA	AGGAGATTTA	360
GTTTTACTGC	TTTGACTGGT	GGGTCTCTAG	AAGCAAAACT	GAGTGATAAC	TCATGAGAAG	420
TACTGATAGG	ACCTTTATCT	GGATATGGTC	CTATAGGTTA	TTCTGAAATA	AAGATAAACA	480
TTTCTAAGTG	AAAAAAAAA	АААААААА	АААААААА	AAA		523

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 1136 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:

 - (A) NAME/KEY: 3'UTR
 (B) LOCATION: 1..1136

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ATGAACTGAA	GATGTGCCCT	TACTTGGCTG	ATTTTTTTT	TCCATCTCAT	AAGAAAAATC	60
AGCTGAAGTG	TTACCAACTA	GCCACACCAT	GAATTGTCCG	TAATGTTCAT	TAACAGCATC	120
TTTAAAACTG	TGTAGCTACC	TCACAACCAG	TCCTGTCTGT	TTATAGTGCT	GGTAGTATCA	180
CCTTTTGCCA	GAAGGCCTGG	CTGGCTGTGA	ĆTTACCATAG	CAGTGACAAT	GGCAGTCTTG	240
GCTTTAAAGT	GAGGGGTGAC	CCTTTAGTGA	GCTTAGCACA	GCGGGATTAA	ACAGTCCTTT	300
AACCAGCACA	GCCAGTTAAA	AGATGCAGCC	TCACTGCTTC	AACGCAGATT	TTAATGTTTA	360
CTTAAATATA	AACCTGGCAC	TTTACAAACA	AATAAACATT	GTTTTGTACT	CACGGCGGCG	420
ATAATAGCTT	GATTTATTTG	GTTTCTACAC	CAAATACATT	CTCCTGACCA	CTAATGGGAG	480
CCAATTCACA	ATTCACTAAG	TGACTAAAGT	AAGTTAAACT	TGTGTAGACT	AAGCATGTAA	540
TTTTTAAGTT	TTATTTTAAŢ	GAATTAAAAT	ATTTGTTAAC	CAACTTTAAA	GTCAGTCCTG	600
TGTATACCTA	GATATTAGTC	AGTTGGTGCC	AGATAGAAGA	CAGGTTGTGT	TTTTATCCTG	660
TGGCTTGTGT	AGTGTCCTGG	GATTCTCTGC	CCCCTCTGAG	TAGAGTGTTG	TGGGATAAAG	720
GAATCTCTCA	GGGCAAGGAG	CTTCTTAAGT	TAAATCACTA	GAAATTTAGG	GGTGATCTGG	780
GCCTTCATAT	GTGTGAGAAG	CCGTTTCATT	TTATTTCTCA	CTGTATTTTC	CTCAACGTCT	840

GAGTTTTCAT ATGTGGGAGC

GGTTGATGAG AAAAAATTCT TGAAGAGTTT TCATATGTGG GAGCTAAGGT AGTA	TTGTAA 900
AATTTCAAGT CATCCTTAAA CAAAATGATC CACCTAAGAT CTTGCCCCTG TTAA	GTGGTG 960
AAATCAACTA GAGGTGGTTC CTACAAGTTG TTCATTCTAG TTTTGTTTGG TGTA	AGTAGG 1020
TTGTGTGAGT TAATTCATTT ATATTTACTA TGTCTGTTAA ATCAGAAATT TTTT	ATTATC 1080
TATGTTCTTC TAGATTTTAC CTGTAGTTCA TAAAAAAAAA AAAAAAAAA AAAA	AA 1136
(2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GGATTTAGGT GACACTATAG	20
(2) INFORMATION FOR SEQ ID NO:4:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
TGAGAAAGC GGGGCCTG	18
(2) INFORMATION FOR SEQ ID NO:5:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
TAAGTAACTG ATCGTGTGCT C	21
(2) INFORMATION FOR SEQ ID NO:6:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	

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(2)	INFORMATION FOR SEQ ID NO:7:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GAGI	TTTTCTC ATATGTGGGA	20
(2)	INFORMATION FOR SEQ ID NO:8:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
AATO	GAACTGA AGATGTGCCC	20
(2)	INFORMATION FOR SEQ ID NO:9:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
AGG	AATCTCT CAGGGCAAGG	20
(2)	INFORMATION FOR SEQ ID NO:10:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
GCTT	TGATTTA TTTGGTTTCT	20
(2)	INFORMATION FOR SEQ ID NO:11:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
GCC	AGATAGA AGACAGGTTG	20

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(2)	INFORMATION FOR SEQ ID NO:12:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
ATC	CTGTGGC TTGTGTAGTG	20
(2)	INFORMATION FOR SEQ ID NO:13:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
TTT	TTTTTTT CCATCTCATA	20
(2)	INFORMATION FOR SEQ ID NO:14:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
CTG	GCTGGCT GTGACTTACC	20
(2)	INFORMATION FOR SEQ ID NO:15:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
ACT	CACGGCG GCGATAATAG	20
(2)	INFORMATION FOR SEQ ID NO:16:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
1	ATACATTCTC CTGACCACTA	20
	(2) INFORMATION FOR SEQ ID NO:17:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
	GGTTGTGTTT TTATCCTGTG	20
	(2) INFORMATION FOR SEQ ID NO:18:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
	GTTTTTATCC TGTGGCTTGT	20
	(2) INFORMATION FOR SEQ ID NO:19:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
	GTGGCTTGTG TAGTGTCCTG	20
	(2) INFORMATION FOR SEQ ID NO:20:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
	CTGAGTAGAG TGTTGTGGGA	20
	(2) INFORMATION FOR SEQ ID NO:21:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
	GTGTTGTGGG ATAAAGGAAT	20
	(2) INFORMATION FOR SEQ ID NO:22:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
۹.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
	TCTCACTGTA TTTTCCTCAA	20
	(2) INFORMATION FOR SEQ ID NO:23:	
diene ergen greet geneg geleg fand geleg geleg geneg geleg g	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
<u></u>	GGTGTAAGTA GGTTGTGTA	20
Hall then well that		
	(2) INFORMATION FOR SEQ ID NO:24:	
The state of the s	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
v.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
*.	ATAAAGGAAT CTCTCAGGGC	20
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, A.,	(2) INFORMATION FOR SEQ ID NO:25:	
Ŗ	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
	TACTCACGGC GGCGATAATA	20

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(2) INFORMATION FOR SEQ ID NO:26:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
ATAGCAGTGA CAATGGCAGT	20
(2) INFORMATION FOR SEQ ID NO:27:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
CTTACCATAG CAGTGACAAT	20
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
GCTACCTCAC AACCAGTCCT	20
(2) INFORMATION FOR SEQ ID NO:29:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
ACTTGGCTGA TTTTTTTTT	20
(2) INFORMATION FOR SEQ ID NO:30:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
CCTGGCTGGC TGTGACTTAC C	21

(2) INFORMATION FOR SEQ ID NO:31:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
ATACATTCTC CTGACCACTA A	21
(2) INFORMATION FOR SEQ ID NO:32:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
GTAGTATCAC CTTTTGCCAG AA	22
(2) INFORMATION FOR SEQ ID NO:33:	•
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GGTGCCAGAT AGAAGACAGG TTG	23
(2) INFORMATION FOR SEQ ID NO:34:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	-
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
CTAAATGAAC TGAAGATGTG CCCT	24
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
GCTTGATTTA TTTGGTTTCT ACAC	24

(2) INFORMATION FOR SEQ ID NO:36:

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
	ATAAAGGAAT CTCTCAGGGC AAGGA	25
	(2) INFORMATION FOR SEQ ID NO:37:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
	ATTTTTATT ATCTATGTTC TTCTA	25
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i.i.	(2) INFORMATION FOR SEQ ID NO:38:	
And the state of t	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
*	CCCTTACTTG GCTGATTTTT TTTTTCC	27
	(2) INFORMATION FOR SEQ ID NO:39:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
	CTGAGTAGAG TGTTGTGGGA TAAAGGAAT	29
	(2) INFORMATION FOR SEQ ID NO:40:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

AAGCCGTTTC ATTTTATTTC TCACTGTATT TTCCTCAA

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(2) INFORMATION FOR S	EQ ID NO:41:	
(B) TYPE: n	34 base pairs ucleic acid DNESS: single	
(xi) SEQUENCE DES	CRIPTION: SEQ ID NO:41:	
TAGTTTTGTT TGGTGTAAGT	AGGTTGTGTG AGTT	34
(2) INFORMATION FOR S	EQ ID NO:42:	
(B) TYPE: r	37 base pairs nucleic acid EDNESS: single	
(xi) SEQUENCE DES	SCRIPTION: SEQ ID NO:42:	
ACCTGTAGTT CATAAAAAA	AAAAAA AAAAAAAA	37
(2) INFORMATION FOR	SEQ ID NO:43:	
(B) TYPE: (C) STRAND	ARACTERISTICS: : 39 base pairs nucleic acid EDNESS: single GY: linear	
(xi) SEQUENCE DE	SCRIPTION: SEQ ID NO:43:	
GGTTGTGTTT TTATCCTGT	G GCTTGTGTAG TGTCCTGGG	39
(2) INFORMATION FOR	SEQ ID NO:44:	
(B) TYPE: (C) STRANI	ARACTERISTICS: I: 20 base pairs nucleic acid DEDNESS: single DGY: linear	
(xi) SEQUENCE DE	ESCRIPTION: SEQ ID NO:44:	
AGTGGGTTTG CTTGAGGTC	GG	20
(2) INFORMATION FOR	SEQ ID NO:45:	
(A) LENGT (B) TYPE: (C) STRAN	HARACTERISTICS: H: 20 base pairs nucleic acid DEDNESS: single OGY: linear	
(xi) SEQUENCE D	ESCRIPTION: SEQ ID NO:45:	
CCCTTTCCTC CACCCTGT	тG	20

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(2)	INFORMATION FOR SEQ ID NO:46:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
AAA	AAAAGAA AAAAAAACG	20
(0)	INFORMATION FOR SEQ ID NO:47:	
(2)		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
AGT	AGAAGTT TTAGGAATGC	20
(2)	INFORMATION FOR SEQ ID NO:48:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
GT'	TTCATCAC CCATTTAGCA	20
(2	INFORMATION FOR SEQ ID NO:49:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	20
TT	TACTGCTT TGACTGGTGG	20
(2) INFORMATION FOR SEQ ID NO:50:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
	TO SEE COMPANY MEDICAL CONTROL C	2